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DIALOG(R)File 351:Derwent WPI  
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012439934 \*\*Image available\*\*

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XRPX Acc No: N99-183255

**Drinking straw application device for foil packaged drinks**

Patent Assignee: INDAG GES INDUSTRIEBEDARF MBH (INDA-N)

Inventor: KRAFT E; WILD H P; WILD H

Number of Countries: 036 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 909710	A1	19990421	EP 98117484	A	19980915	199921 B
DE 19745855	A1	19990422	DE 1045855	A	19971016	199922
SK 9801427	A3	19990507	SK 981427	A	19981015	199926
ZA 9808893	A	19990630	ZA 988893	A	19980929	199931
HU 9802398	A2	19990728	HU 982398	A	19981015	199936
CA 2249178	A1	19990416	CA 2249178	A	19981005	199939
JP 11193011	A	19990721	JP 98295445	A	19981016	199939
CN 1217994	A	19990602	CN 98120965	A	19981016	199940
US 5979142	A	19991109	US 98162203	A	19980928	199954
BR 9804496	A	19991026	BR 984496	A	19981015	200009
KR 99037162	A	19990525	KR 9843352	A	19981016	200032
CZ 9803294	A3	20000712	CZ 983294	A	19981013	200040
TW 396136	A	20000701	TW 98116818	A	19981009	200104

Priority Applications (No Type Date): DE 1045855 A 19971016

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 909710	A1	G	13	B65B-061/20	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

SK 9801427	A3			B65B-005/00	
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ZA 9808893	A		21	B65B-000/00	
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HU 9802398	A2			B65D-073/00	
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CA 2249178	A1	E		B65B-061/00	
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JP 11193011	A		7	B65B-061/20	
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CN 1217994	A			B65B-061/20	
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US 5979142	A			B65B-061/00	
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BR 9804496	A			B65D-073/00	
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KR 99037162	A			B65B-061/20	
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CZ 9803294	A3			B65B-015/00	
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TW 396136	A			B65B-061/20	
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Abstract (Basic): **EP 909710** A1

NOVELTY - The device attaches a drinking straw (4) to the side of each foil package (2) using a pair of straw feeds (32,34) and cutters for separation of the straws from a pair of drinking straw bands. The drinking straw bands are operated in synchronism with a transport device (10) for the foil packages, via an electronic control (30), so they attach straws to the successive foil packages in alternation.

USE - For foil packaged drinks plant.

ADVANTAGE - The maximum operating rate of the straw application device can be increased by using two straw feeds.

DESCRIPTION OF DRAWING(S) - The figures show an overview of the components of the straw application device and a perspective view of an individual straw feed.

Foil package (2)

Drinking straw (4)

Transport device (10)

Electronic control device (30)

Straw feeds. (32,34)

pp; 13 DwgNo 1,2/4

Title Terms: DRINK; STRAW; APPLY; DEVICE; FOIL; PACKAGE; DRINK

Derwent Class: Q31; Q32; Q34; T06; X25

International Patent Class (Main): B65B-000/00; B65B-005/00; B65B-015/00;

B65B-061/00; B65B-061/20; B65D-073/00

International Patent Class (Additional): B65B-000/00; AFB6-5B005/00;

AF-B65B015/00; AF-B65B061/00; AO-B65B061/20; AF-B65D025/48;  
BF-B65D073/00

File Segment: EPI; EngPI

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### Status: Signing Off...